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Antioch College Bulletin

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SIXTY-NINTH YEAR

Number 3

~~CATALOGUE~~

1921-1922

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UNIVERSITY OF CHICAGO

Yellow Springs, Ohio

July, 1921

ANTIOCH COLLEGE BULLETIN

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SOME influences act more directly upon one department of human interests and some upon another. It is the high function of a college to act more or less upon all human interests and relations. A college acts upon youth, and hence its influences radiate wherever youth go, and that, in this country, is everywhere. Its responsibilities are commensurate with its influences; and, with a true man, every responsibility is a new incitement to effort.

(From the inaugural address of Horace Mann, delivered at the time of his installation as President of Antioch College in 1853.)

ANNOUNCEMENT
of COURSES

ANTIOCH COLLEGE

Yellow Springs
Greene County
Ohio

1921-1922

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CALENDAR 1921-1922

Cooperative students are arranged in two sections, designated as "Division A" and "Division B." The calendar indicates the period when each division will be in school, at work, and on vacation. All dates are inclusive. Division C students are in school continuously, taking one set of studies with Division A, and another set with Division B.

SCHOOL

All school periods
5 weeks

First Semester

Division A—Sept. 6 to Oct. 8
Division B—Oct. 10 to Nov. 12
Division A—Nov. 14 to Dec. 17

Division B—Jan. 3 to Feb. 4

Second Semester

Division A—Feb. 6 to Mar. 11
Division B—Mar. 13 to Apr. 15
Division A—Apr. 17 to May 20
Division B—May 22 to June 24

June 26 to Sept. 4—Vacation from school for both divisions, except that each student of a pair must work half the vacation with the industry unless special arrangement is made for one student of a pair to work with the industry throughout the summer.

VACATION

November 24

Division A—Dec. 19 to 26

Division B—Dec. 26 to Jan. 2

INDUSTRY

Work periods 5 weeks,
except where noted.

First Semester

Division B—Sept. 6 to Oct. 8

Division A—Oct. 10 to Nov. 12

Division B—Nov. 14 to Dec. 24
(6 weeks)

Division A—Dec. 27 to Feb. 4
(6 weeks)

Second Semester

Division B—Feb. 6 to Mar. 11

Division A—Mar. 13 to Apr. 15

Division B—Apr. 17 to May 20

Division A—May 22 to June 24

CALENDAR 1921-1922

Arranged by Divisions

Division A

First Semester

Sept. 6 to Oct. 8 in School.
Oct. 10 to Nov. 12, in Industry.
Nov. 14 to Dec. 17, in School.
Dec. 19 to Dec. 26, Vacation.
Dec. 27 to Feb. 4, in Industry.

Second Semester

Feb. 6 to Mar. 11, in School.
Mar. 13 to Apr. 15, in Industry.
Apr. 17 to May 20, in School.
May 22 to June 24, in Industry.

Division B

First Semester

Sept. 6 to Oct. 8, in Industry.
Oct. 10 to Nov. 12, in School.
Nov. 14 to Dec. 24, in Industry.
Dec. 26 to Jan. 2, Vacation.
Jan. 3 to Feb. 4, in School.

Second Semester

Feb. 6 to Mar. 11, in Industry.
Mar. 13 to Apr. 15, in School.
Apr. 17 to May 20, in Industry.
May 22 to June 24, in School.

June 22, Commencement.

Holidays

Nov. 24, Thursday
Feb. 22, Wednesday.
May 30, Tuesday

OFFICERS OF THE CORPORATION

President

ARTHUR E. MORGAN

Secretary

HOMER C. CORRY, Springfield, Ohio

Treasurer

MIAMI DEPOSIT BANK, Yellow Springs, Ohio

P. M. Stewart, President

Executive Committee

ARTHUR E. MORGAN, Ex-Officio Chairman

GEORGE LITTLE, Xenia, Ohio

HOMER C. CORRY, Springfield, Ohio

WILLIAM CHRYST, Dayton, Ohio

JOHN C. HASWELL, Dayton, Ohio

BOARD OF TRUSTEES OF ANTIOCH COLLEGE

- F. C. CALDWELL, Columbus, Ohio; Head of the Department of Electrical Engineering, Ohio State University.
- WILLIAM CHRYST, Dayton, Ohio; Chief Engineer of the Dayton Engineering Laboratories Company.
- JOSEPH P. COTTON, New York City; of the law firm of McAdoo, Cotton & Franklin.
- HOMER C. CORRY, Springfield, Ohio; attorney, and Secretary of the Board.
- HENRY S. DENNISON, Framingham, Mass.; President of the Dennison Manufacturing Company.
- EDWIN F. GAY, New York City; President of the New York Evening Post.
- JEROME D. GREENE, New York City; of Lee, Higginson & Company.
- JOHN C. HASWELL, Dayton, Ohio; President of the Dayton Malleable Iron Co.
- HON. LEWIS M. HOSEA, ex-Judge Superior Court; law firm of Hosea, Knight & Phares, Cincinnati, Ohio.
- RALPH HOWELL, Yellow Springs, Ohio; farmer.
- GEN. J. WARREN KEIFER, Springfield, Ohio; banker and lawyer, formerly Speaker of the National House of Representatives.
- C. F. KETTERING, Dayton, Ohio; Vice-President and Chief Engineer of the General Motors Corporation.
- GEORGE LITTLE, Xenia, Ohio; manufacturer and banker.
- ARTHUR E. MORGAN, President of the Dayton Morgan Engineering Co. and President of Antioch College.
- WILLIAM MAYO, Detroit, Mich.; Chief Engineer of the Ford Industries.
- GORDON S. RENTSCHLER, Hamilton, Ohio; of the manufacturing firm of Hooven, Owens & Rentschler Company.
- ELLERY SEDGWICK, Boston Mass.; Editor of the Atlantic Monthly.
- FRANK D. SLUTZ, Dayton, Ohio; Director of the Moraine Park School.
- FRANK A. VANDERLIP, New York City; banker.
- GEORGE M. VERITY, Middletown, Ohio; President of the American Rolling Mills Company.

FACULTY OF ANTIOCH COLLEGE

ARTHUR ERNEST MORGAN, President.

PHILIP CURTIS NASH, Dean and Professor of Civil Engineering.

Harvard University, A.B. and M.C.E. Formerly Professor of Civil Engineering, Northeastern College. Previously Civil Engineer with the Boston Transit Commission.

ARTHUR ANDREW HAUCK, Assistant Dean, and Professor of Education.

Reed College, A.B. Formerly of the Moraine Park School. Previously Educational Director, Idaho Industrial Training School.

GEORGE HOYT BIGELOW, Director of Industrial Health

Harvard University, A.B., M.D., and Dr.P.H. Formerly instructor in the Departments of Preventive Medicine and Hygiene, and of Tropical Medicine, Harvard Medical School. Previously acting State Epidermologist, Massachusetts State Department of Health.

FRED LAWRENCE' CAVIS, Director of Accounting

Formerly Chief Accountant of the Miami Conservancy District. Previously Chief Accountant of the United States Reclamation Service.

MRS. ESTELLE BIDDLE CLARK, Associate Professor of English

Waynesburg College, A.B. James Millikin University, Litt.D. Previously Professor of English and French, Antioch College.

WILLIAM MARCUS DAWSON, Professor of German and Director of the Department of Language and Literature

Antioch College, A.B. and A.M. Ohio State University. University of Chicago. Previously Professor of Education and German at Antioch College.

HORACE B. ENGLISH, Professor of Psychology

Oxford, England, A.B. Yale University, Ph.D. Formerly, Assistant Professor of Psychology at Wellesley College.

MRS. EUDELL D. EVERDELL, Associate Professor of Education

Minnesota State Normal School. University of Minnesota, A.B. Previously Supervisor of Teachers' Training Work in Minnesota High Schools.

HORACE LEONARD GARDNER, Director of Personnel Administration

Massachusetts Institute of Technology. Formerly Manager of Personal Relations, E. I. DuPont de Nemours and Company. Previously Employment Manager, Cheney Brothers, South Manchester, Connecticut.

LOUIS GRANDGENT, Director of Architecture

Harvard University, A.B. Massachusetts Institute of Technology, B.S. Previously of Grandgent and Elwell, Architects, Boston, Massachusetts.

EMMA LOUISE GUNTZER, Instructor in French

Pensionat at Colmar, Alsace. Student in Painting under Antoine Diffenbach. Previously Teacher of French at Societe Demoiselles de Magasins at Colmar.

JESSE H. HORNER, Associate Director of Accounting

Formerly Assistant Accountant at the Miami Conservancy District.

ISKANDER HOURWICH, Lecturer on Industrial Research

Assistant Engineer in Charge of Power Plant Laboratory, Engineering Division, U. S. Army Air Service. In charge of compilation of "Air Service Aviation Engine Hand Book."

KATHARINE HUEY, Associate Director of Personnel Administration

Bryn Mawr College. Bureau of Personnel Administration. Formerly Division Employment Manager, Bell Telephone Company of Pennsylvania, Pittsburgh Division. Previously Manager of Employment Division, Curtis Publishing Company.

ONDESS LAMAR INMAN, Professor of Biology

University of Indiana, A.B. University of Idaho, M.S. Harvard University, Ph.D. Formerly Instructor at the University of Idaho and Teaching Fellow at Harvard University.

GEN. J. WARREN KEIFER, Professor Emeritus of History

Antioch College. General in the Civil War. Speaker of the National House of Representatives, 1881-1883. Trustee of Antioch College.

MRS. MARY S. KIRKPATRICK, Dean of Women

Ogontz School. Butler College. For four years Dean of Women at Antioch College.

ROY FREDERICK NEWTON, Professor of Physical Chemistry

Northwestern University, B.S. University of California, Ph.D. Previously Instructor in Chemistry, University of California.

CHARLES A. NOSKER, Associate Professor of Biology
Antioch College, B.S. and A.M. University of Chicago. Ohio State University. Previously Professor of Biology at Antioch College.

AUSTIN McDOWELL PATTERSON, Professor of Chemistry
Princeton University, A.B. Johns Hopkins University, Ph.D. Consulting Technical Editor, Webster's New International Dictionary. Author of Chemical German-English and French-English Dictionaries. Formerly Editor of "Chemical Abstracts."

EARL E. PRUGH, Director of Physical Education and Associate Professor of Mathematics
Ohio Wesleyan, B.S. Columbia University. Formerly Principal of Troy High School. Football and Basketball Official for Ohio Conference and Western Conference.

FRANK DURWARD SLUTZ, Lecturer on Education
Mount Union College, A.B. Harvard University, M.A. Denver University, Litt.D. Director of Moraine Park School.

BESSIE LOUISE TOTTEN, Associate Librarian
Antioch College, Ph.B. Previously Librarian at Antioch College.

EMILY TURNER, Librarian
Pratt Institute Library School. Formerly Acting Librarian at Connecticut College. Previously Instructor, Pratt Institute Library School. Consulting Librarian for college, public, and private libraries.

JULIA EMERY TURNER, Professor of Household Economics
Vassar College, A.B. Columbia University, A.M. Formerly Director of Residence and Assistant in Dietetics at Connecticut College. Previously Head of "Fiske Cottage," Wellesley, and of "Lawrence House," Smith College. Lecturer at Simmons College. Previously Director of New England Kitchen, Boston, Massachusetts.

HENDRIK WILLEM VAN LOON, Professor of Social Science
Cornell University, A.B. University of Munich, Ph.D. Formerly Lecturer on Modern European History at Cornell. Associated Press Correspondent in the Great War.

WILBERT S. WARREN, Associate Professor of Spanish
Bates College, A.B. Formerly Professor of Spanish, Antioch College. (On leave of absence 1921-1922.)

STEPHEN F. WESTON, Professor of Philosophy and Secretary of Faculty

Antioch College, A.B. Columbia University, Ph.D. Previously Professor of Philosophy and Economics at Antioch College.

COMMITTEES OF THE FACULTY**Admission of New Students**

*Mr. Gardner
Mr. Dawson
Miss Huey
Miss Totten
Mrs. Kirkpatrick

Athletics

*Mr. Prugh
Mr. Gardner
Mr. Inman
Miss Huey

Buildings and Grounds

*Mr. Grandgent
Mr. Cavis
Miss Julia Turner
Mr. Nosker

Bulletins and Publicity

*Mr. Dawson
Mr. Van Loon
Miss Turner

Dormitories and Refectory

*Miss Julia Turner
Mrs. Kirkpatrick
Mrs. Weston
Mr. Inman

Industrial Practice

*Mr. Gardner
Mr. Newton
Mr. Hauck
Miss Huey

Purchasing Committee

*Mr. Nash
Mr. Cavis
Miss Julia Turner

Religious Activities

*Mr. Hauck
Mr. Patterson
Miss Turner

Scholarship

*Mr. English
Mr. Weston
Mr. Nosker
Mrs. Everdell
Mr. Prugh

Student Activities

*Dr. Bigelow
Mrs. Patterson
Mrs. Kirkpatrick
Mr. Hauck
Mr. Van Loon

*Denotes chairman.

HISTORY OF ANTIOCH COLLEGE

Antioch College was founded in 1853. Horace Mann was its president from that date until his death, six years later. In these early days, the College was the western rendezvous for Ralph Waldo Emerson, Nathaniel Hawthorne, Edward Everett Hale, and an eminent group of other New England intellectuals.

Antioch was one of the first educational institutions in the United States to operate under the coeducational plan, and was the first college of high rank to admit women to an equal standing with men, opening to them without restriction the same courses.

On the death of Horace Mann, Dr. Thomas Hill became president of the College. In 1861, when the entire student body enlisted for the war, the men as soldiers and the women as nurses, Dr. Hill left the College and later became president of Harvard University. The College numbers among the alumni, instructors, and officials, such men as Dr. Edward Orton, the first president of Ohio State University; G. Stanley Hall, president of Clark University; C. W. Russell, vice-president of Cornell; President Hubble, of Lincoln Memorial University; President Hooper, of Brooklyn Institute; Dr. Simeon D. Fess, congressman and lecturer, and president of Antioch; James K. Hosmer, historian and professor of history in the University of St. Louis; James E. Clark, for many years professor of mathematics in Yale; S. C. Derby, for more than twenty-five years professor in Latin in Ohio State University; E. W. Claypole, professor of geology in Throop College of Technology; Dr. Frank H. Tufts, professor of physics in Columbia University; Dr. J. Y. Bergen, the noted botanist.

In 1920, Arthur E. Morgan was elected president of Antioch College, and the program outlined in this catalogue was initiated under his direction in 1921.

THE ANTIOCH PROGRAM

The small college cannot duplicate the work of the great universities, but when it recognizes the need for individuality in our educational system, it can develop a field of work in which it will be more effective than the large institutions. Following a survey of the present state of the American small college, the trustees of Antioch have reorganized the college according to the following plan:

1. Student self-support by a division of time between college study and remunerative work, the college program being arranged accordingly.

2. A combination of academic study with practical experience, preferably in the calling for which the student is preparing himself.

3. Allowance of credit for actual accomplishment, and not for "clock hours" spent in any given subject. (It is estimated that the average student on the cooperative plan will require six years to complete a course of study requiring full time for four years.)

4. The college offers liberal arts courses and a limited number of technical courses. In the belief that the best results can be secured by a comparatively small faculty of high-grade men and women, the number of regular liberal arts courses is limited to about eighty, which is less than half the number usually offered in small colleges.

5. Except for students who show marked ability in some department, liberal arts courses deal with only the fundamentals of their subjects. For students who do show such ability, autonomous courses are provided; that is, for advanced work, well-planned courses of study are offered, with library and laboratory facilities, and with occasional recourse to the heads of departments or other competent authorities for advice. Thus the student carries the advanced work in the manner of a seminar.

6. There must be coordination among different courses, so that the college will be a synthetic unit rather than an aggregation of unrelated departments, each bidding for the student's time and interest.

7. A limited number of technical courses is offered. A technical course must include the fundamentals of a liberal arts education, as it is the aim to make citizens as well as technicians. These courses aim to develop general competency, rather than highly specialized technique, and to prepare men and women for callings for which adequate preparation is not now being given in colleges and universities. They aim to make men and women directors of industry, rather than employes working under detailed directions.

8. The college aims to eliminate the traditional cleavage between cultural standards and practical standards, and to make practical life for its students a medium of expression for such cultural standards and ideals.

9. Physical fitness is essential to happiness and success. Students are required to care for their physical condition in order to remain in the institution.

10. The final measure of accomplishment is the success attained in turning out students whose preparation has laid the basis for productive service, and whose primary aim is service to their communities and to their times. No paper program will accomplish this result, but only the spirit with which the college may be imbued. The chief hope of the trustees is to maintain a faculty and a student body that will make this result possible.

DETAILS OF THE PROGRAM

The Cooperative Plan—The cooperative plan of education has been successfully used for some years in engineering and technical schools, especially at the University of Cincinnati. Antioch College has adapted this plan to the field of administration and

callings as engineering, mining, accounting, retail like pursuits.

dent—When a new co- he or she is assigned college studies begin on October 10th for Division ed in positions conform- proximating their own

in Miami Valley indus- will be started on the of industry, due to the be borne in mind by the ges for their industrial individual ability.

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3. Allowance of credit for actual accomplishment, and not for "clock hours" spent in any given subject. (It is estimated that the average student on the cooperative plan will require six years to complete a course of study requiring full time for four years.)

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DETAILS OF THE PROGRAM

The Cooperative Plan—The cooperative plan of education has been successfully used for some years in engineering and technical schools, especially at the University of Cincinnati. Antioch College applies the same plan to the field of administration and management, giving instruction in such callings as engineering, education, machine-shop operation, farming, accounting, retail selling, manufacturing, journalism, and like pursuits.

From the Point of View of the Student—When a new cooperative student reports at the College, he or she is assigned to one of the two divisions, A or B. College studies begin on September 6th for Division A and on October 10th for Division B. In industrial work, students are placed in positions conforming to their own capabilities, and approximating their own wishes, as closely as this can be effected.

At present a number of jobs are open in Miami Valley industries, and as soon as possible industries will be started on the campus. The present confused condition of industry, due to the post-war readjustments, must, however, be borne in mind by the incoming students. Students receive wages for their industrial work. The amount is contingent upon individual ability.

From the Point of View of the Employer—One job is filled by two students, one from each of the two cooperative divisions, working in alternate shifts of five weeks each. When a student is at work, he receives no special privileges.

It has been found that to have two students alternately filling one job is not a serious handicap. It is true that two persons have to be broken in, but once this is accomplished, the employer is guaranteed two fairly competent and dependable employes.

The employer is at liberty to discontinue the students or to promote them at his discretion. It is the desire of the College that the students shall learn the actual conditions of commercial life, that poor work brings its failures and good work its rewards. Experience in varied administrative functions and in responsibility will come with later years. The first year in school is spent largely at labor. To know how to work and to get the laborer's point of view, are essential training for the manager and administrator.

Student Self-Support in Organized Industry—Many students work their way through college. With comparatively few exceptions, however, the college does not coordinate its work with that of organized industry, but is run for the student who does not have to earn his way. The self-supporting students, whether boys or girls, must do their work at odd hours usually in competition with lowest paid labor. The Antioch program aims to cooperate with organized industry which has high productive value, and consequently pays comparatively high wages, by dividing the student body into two groups, each group attending

school half time and working half time, in alternate periods, each of five weeks.

While Antioch College is located in a quiet village, it is only thirty minutes from Springfield on an electric car line, and is in the center of one of the greatest industrial districts of the country. Within twenty miles are several hundred highly developed technical industries, several of them the largest of their kind in the world. About forty of the manufacturers of Springfield have agreed to employ Antioch students.

Academic Study Combined with Practical Experience—Academic study supplies only a part of the factors of education. The student does not master his calling until he has practiced it; he does not know what stuff he is made of until he has tried himself out. It is not necessary nor desirable for the student to acquire his complete equipment of academic learning before he begins its application. If his work in industry gives meaning and direction to his studies and his studies to his work, his development will be better balanced, and his period of apprenticeship after he leaves school will be shorter.

It is the hope of the trustees that little by little the students under proper direction may develop their own industries, such as printing, the operation of a commercial machine shop, farming, and contracting. The plans include, also, the construction of a standard factory building on the campus, to be occupied by a number of small industries, chosen because of the educational value of the work and because of the possibility of good wage scales. The College will furnish these small industries with floor space, power, a large part of the labor, and, where desired, with administrative service. By having the factory located on the campus, the great loss of time and money for traveling which is incurred under the usual cooperative plans will be avoided.

The Liberal Arts Courses—The content of liberal arts courses should be determined by a proper estimate of present values, and not by tradition. Antioch will give more than the traditional weight to subjects that inevitably affect us, and a knowledge of which assists us to direct our lives and our times; it will therefore give proportionately less time to other subjects.

The Technical Courses—Notwithstanding all of the centralization of industry that may occur, there is and will continue to be abundant room in small, independent industries for well educated men of comprehensive outlook and general capability. If a school, instead of developing highly specialized experts, trains selected men by actual commercial or professional experience, as well as by academic study, in the fundamentals of human relationships, of scientific principles, and of business and professional methods, with the aim of making proprietors of small industries, it will have put these men and women on an

open road to accomplishment, limited only by their individual capacities. It is this character of technical and professional training that the Antioch program provides, and in which it can best compete with the large universities.

An example can be given in the proposed Machine Shop course. American industry is becoming increasingly mechanical. While our factories are turning out an enormous mass of mechanical appliances, our maintenance system outside of large cities is usually limited to poorly equipped shops. There is room in our country for a large number of independent machine shops, which would maintain this equipment and otherwise serve the mechanical needs of the communities. Such shops will not be "blind alley" industries; for it takes but a slight change to turn a well-organized shop into a factory.

The proposed Machine Shop course will have as an underlying requirement the fundamentals of a liberal arts education; for the student should become a cultural and social asset to his community, as well as an industrial asset. By half-time work through a six-year course, covering the different phases of his prospective industry, he may gain some of the experience necessary to make him an effective technician, a superintendent, and an executive. His technical studies include the fields of physics and mechanics, business administration and accounting, psychology and sociology. After graduation he may at once undertake the management of a machine shop or serve an apprenticeship in one, depending upon his maturity and ability.

Vocational work in education will prepare for teaching and the administration of schools. Here also general, well-balanced training is preferable to high specialization.

The technical courses should lead to the mastery of fundamentals. The details of technique frequently may be left to personal mastery, either in college or later. The technical training should tend more to an understanding of principles and to the habit of applying them in practice, and less to an accumulation of alleged facts. Such courses at present include: education as applied to school management, business administration, civil engineering, contracting, farming, machine shop operation and management, and household arts. All courses are open to men and women alike. The women will have unusual opportunities in business and industrial management as well as in household arts and institutional management.

REQUIREMENTS FOR DEGREES

The cooperative course, as outlined in this catalogue, ordinarily requires six years for completion. Credit is given for work covered at other colleges and for experience acquired in the industries. The student may elect to devote his full time to college work, alternating between groups of classes, instead of between industry and school. Courses conducted under the latter plan normally require four years of the average student's time.

If all entrance requirements are not fulfilled at the time of admission to the college, they must be completed after entrance. Such work is done in the Antioch School, and lengthens the course proportionately. In some cases, however, one or two entrance conditions can be made up in the preparatory school at the same time college work is being carried on, without lengthening the time.

Six degrees are offered to students successfully completing the college courses: Bachelor of Arts, Bachelor of Science, Bachelor of Industry, Master of Arts, Master of Science, and Master of Industry.

The completion of satisfactory work in at least sixty courses is required for a degree. (A "course" consists of the equivalent of nine hours' work a week for one semester, usually divided into three classroom hours and six laboratory or preparation hours.) Physical Education courses are required in addition to the sixty courses mentioned.

Besides doing this work in the College studies, a cooperative student must show an orderly, responsible record of work at industrial practice. Students are given credit for the work in any course when they give definite evidence of having mastered its content, whether more or less time than is specified has been used in doing the work. If students are somewhat deficient in entrance requirements, they are required to take enough courses beyond the sixty usually required to make up the deficiency.

Ordinarily a student must complete two years' residence at Antioch to become eligible for a Bachelor's degree. The Master's degree is conferred upon students who have completed twenty courses after receiving the Bachelor's degree. This may be done in two years on the cooperative plan or one year under the full time plan.

REQUIREMENTS FOR ADMISSION

Standards for admission to Antioch in general are at least equivalent to those of the North Central Association of Colleges. The requirements differ only for the purpose of making them less artificial and more nearly a measure of the applicant's real ability. Admission depends upon a careful but informal examination of the student's qualifications in each particular case. High school graduation is desirable and will be given weight in

arriving at a decision, but it is not imperative, nor is it sufficient in itself to secure admission. Failure to complete a high school course at once raises doubt as to the prospective student's fitness for college work, and definite evidence of fitness is necessary to remove that doubt. The general character, maturity, development, and intelligence of the student, measured by his record of accomplishment in school and out, weigh more heavily than the completion of any certain list of school subjects.

The first step toward securing admission is to fill out and return one of the application blanks. This application, if carefully executed, gives a very good indication of a prospective student's outlook and capability, and care should be taken in filling it out. In addition to this, where feasible, a personal interview with a representative of the College, and a short psychological test, are required of all students before acceptance for entrance.

Because the entrance requirements for Antioch are less formal than at other colleges, it must not be thought that they are less exacting. Only young men and women of high personal character, receptive intellect, and power of application, can hope successfully to complete the course, and those who are not impelled by serious and earnest motives are not encouraged to apply for admission.

High school subjects which are essential as a basis for college studies must be taken in the preparatory department of the college, if not a part of the student's equipment upon arrival.

The following work is essential as a basis for college studies:

English—A reasonable degree of facility in reading, writing, and speaking, and a reasonable acquaintance with literature.

Mathematics—Arithmetic and Elementary Algebra.

Chemistry (one year), Physics (one year)—These may be taken as regular college work, but may delay the completion of the course, if taken in college.

The following subjects are desirable, but lack of them will not jeopardize college work:

Geography (a knowledge of physical, political, and economic geography), French, German, American History, English History, Advanced Algebra, Plain and Solid Geometry, Plain Trigonometry, Mechanical Drawing, Manual Training.

Beyond these subjects, the courses for admission to Antioch are elective.

Students who register for admission a year or more in advance would do well to correspond with the college, to the end of coordinating high school work with that to be taken at Antioch.

Credit from Other Institutions—Credit for work done in other colleges will be granted as nearly as possible according to its actual worth. Credit will be given similarly for work done outside of school, if examination shows it to be of substantial merit.

TYPICAL COURSE OF STUDY

The following is a typical course of study for the student who desires to qualify for management and administration in any calling. Modifications of this course will be made in individual cases, as previous training and personal aims may justify. Many students make application for specific courses, but when an analysis is made of their purposes, it appears that a decision has been reached without a sound basis of judgment. The large number of men and women who take professional courses, only to find that they are not fitted to the particular calling, is evidence of this tendency. A course which postpones specific vocational training until the later college years, gives the student an opportunity to arrive at a more mature decision based upon his own experiences in his part-time work, and upon the advice and counsel of his teachers.

First Year—First Semester

- College Aims—3 hours per week.
- Personal Finances—3 hours per week.
- *Chemistry—3 hours per week.
- *Mathematics—3 hours per week.
- Literature—3 hours per week.
- Physical Education—2 hours per week.

First Year—Second Semester

- Chemistry—3 hours.
- Mathematics—3 hours.
- Literature—3 hours.
- Biology—3 hours.
- Industrial Problems—3 hours.
- Physical Education—2 hours.

*Students who have taken high school chemistry may omit chemistry and take biology or an option during the entire first year. In some cases a foreign language or other course may be substituted for mathematics. A student may elect courses beyond the number indicated by permission of the adviser.

Second Year—First Semester

- Literature—3 hours.
- Physics—3 hours.
- Biology—3 hours.
- Social Science—3 hours.
- Earth Science—3 hours.
- Physical Education—1 hour.

Second Year—Second Semester

- Same subjects continued.

Third Year—First Semester

- Social Science—3 hours.
- Industrial Relations—3 hours.

Cost Keeping and Accounting—3 hours.
Traffic and Distribution—3 hours.
Specific Vocational Course, or option—3 hours.
Physical Education—1 hour.

Third Year—Second Semester

Same subjects continued.

Fourth Year—First Semester

Psychology—3 hours.
Finance—3 hours.
Industrial Research—3 hours.
Administrative Organization—3 hours.
Specific Vocational Course, or option—3 hours.

Fourth Year—Second Semester

Same subjects continued.

Fifth Year—First Semester

Philosophy and Psychology—3 hours.
Administrative Organization—3 hours.
Purchasing—3 hours.
Specific Vocational Course, or option—3 hours.
Physical Education—1 hour.

Fifth Year—Second Semester

Same subjects continued.

Sixth Year—First Semester

Publicity and Salesmanship—3 hours.
Production Engineering—3 hours.
Specific Vocational Course, or option—3 hours.
Option—3 hours.
Option—2 hours.
Life Aims—1 hour.

Sixth Year—Second Semester

Same subjects continued.

OUTLINE OF COURSES

Starred courses, or their equivalent, are required of candidates for the Bachelor's Degree.

For Time Schedule, see page 41.

DEPARTMENT OF ENGLISH AND LITERATURE

***L1—The Literature of Philosophy and Religion, of Social Theories, of Science, of History, and of Poetry, Drama, and Fiction**

Mr. Morgan, Mr. Slutz, Mr. Patterson, Mr. Weston, Mr. Van Loon, Mr. Dawson, Mrs. Clark, Miss Emily Turner, and others.

First Semester—Group 4.

The course is conducted by lectures, conferences, assigned and collateral reading, and written themes and reports. The aim is to introduce the student to the great sources of wisdom, of aspiration, of vision, and to the finest expressions of the great men and women of the past.

Outside lecturers of distinction in their special fields are engaged to assist the College faculty in the adequate presentation of this course.

***L2, L3, L4—Continuations of Course L1**

L2 is given in the second semester of the first year; L3 and L4, in the first and second semesters respectively of the second year. All are in Group 4 and are required.

L5—English Composition

Mr. Dawson, Mrs. Kirkpatrick, Mrs. Clark, and others.
First Semester—Group 3.

Students for whom this course is not prescribed receive criticism on their literature themes and written reports in other subjects. These reports are scrutinized by representatives of the English Department and are discussed with the student at conferences. If students do not show reasonable progress throughout the college course in the power of English expression, they are required to take special work in composition. Whenever a student gives evidence that he has ability for clear and effective expression in English, he is given credit for Course L5, regardless of the time spent to accomplish that purpose.

Autonomous Courses

Opportunity is afforded students who wish to specialize either in composition or in literature to carry their work beyond that of the prescribed courses.

DEPARTMENT OF SOCIAL SCIENCE

Two thousand years ago, Marcus Tullius Cicero, who was a successful lawyer with a great deal of common sense, remarked that "those who do not know what happened before they were born are forever doomed to remain children, and unless the memory of past events is woven into their own lives, they will never understand the world in which they are forced to make their way."

This department aims to introduce the student to the story of man from the time the stage was set for his first appearance until the last five years when he turned this stage into a slaughter-house. And this story is not to be a description of a series of historical events, but a study of the effects of these events on the economic and sociological history of the world.

H. W. V. L.

***S1-General History and Sociology**

Mr. Van Loon.

First Semester—Group 10.

Textbooks: History of the Early World (Brested); Mediaeval and Modern Times (Robinson).

***S2-Continuation of S1**

Second Semester.

***S3, S4-Continuation of S1 and S2**

First and Second Semesters respectively.

S3 and S4 are in Group 11.

S5-Sociology

Mr. Van Loon.

First Semester—Group 9.

This course treats of the principles of sociology by the study of a selected period.

S6-Economics

Mr. Van Loon.

Second Semester—Group 9.

A brief study of general economic principles.

Autonomous Courses.

Autonomous courses are offered under the supervision of this department in History, Economics, Sociology, and Ethics.

DEPARTMENT OF MATHEMATICS***M1—College Algebra and Trigonometry**

Mr. Prugh, Mrs. Everdell.

First Semester—Group 1.

The course gives a very brief review of Elementary Algebra, a short study of higher-powered equations, logarithms, and plane trigonometry.

All students are required to have a knowledge of algebra through quadratics. Students may take this course for the first semester if prepared to do so; if not, they must take algebra in the Academy.

***M2—Analytic Geometry**

Mr. Nash and Mr. Prugh.

Second Semester—Group 1.

Prerequisite: **M1** or equivalent.

A discussion of the principles of analytic geometry, including graphs, loci, and properties of straight lines, circles, and conics.

M3—Differential Calculus

Mr. Newton.

First Semester—Group 2.

Textbook: Osgood's Calculus.

Prerequisites: Courses **M1** and **M2**, or equivalent.

M4—Integral Calculus

Mr. Newton.

Second Semester—Group 2.

Textbook: Osgood's Calculus.

Prerequisite: Course **M3** or equivalent.

M5—Applied Mechanics—Statics, Kinetics

Mr. Nash.

First Semester—Group 4

Textbook: Boyd, Mechanics.

Prerequisites: **M3** and **M4**, or equivalent.

M6—Resistance of Materials

Mr. Nash.

Second Semester—Group 4.

Prerequisite: **M5**, or equivalent.

The work in courses **M5** and **M6** is carried in informal classes where each student is assisted to make such progress as he may be able.

Autonomous Courses

Students who are competent to do so are encouraged to take higher mathematics and engineering courses.

DEPARTMENT OF EARTH SCIENCE***E1-General Earth Science**

First Semester—Group 5.

A study of the structure of the universe and its development, including an introduction to Astronomy, Geology, Paleontology, and Physical Geography.

***E2-Continuation of E1**

Second Semester—Group 5.

Courses E1 and E2 are not offered for the year 1921 and 1922.

DEPARTMENT OF BIOLOGY***B1-General Biology**

Mr. Inman, Mr. Nosker, and assistants.

First and Second Semesters—Group 13.

Two recitations per week and laboratory.

This course may be taken in either semester. It includes a study of the development of plant and animal life, of the structure and functioning of living matter, of the processes of evolution, and of the laws of breeding and heredity.

***B2-General Biology**

Mr. Inman, Mr. Nosker, and assistants.

First Semester—Group 13.

Prerequisite: Course B1 or equivalent.

Two lectures per week and laboratory.

***B3-General Biology—A Continuation of Course B2**

Second Semester—Group 13.

B4-General Physiology

Not given in 1921-1922.

B5-Comparative Anatomy of Vertebrates

Mr. Inman.

First Semester—Group 5.

Two lectures per week and laboratory.

Prerequisite: B3 or equivalent.

This course is intended primarily for students preparing for medical school and for teaching.

Autonomous Courses

Special and advanced work is encouraged in Botany and Zoology. Opportunity is given to the students in Agriculture to study Genetics, Plant Physiology, etc.

DEPARTMENT OF PHYSICS***P1-General Physics**

Mr. Newton and assistants.

First Semester—Group 5.

Textbook: Kimball, College Physics.

Three recitations per week and laboratory.

Prerequisites: **M1** and **M2**, or equivalent, to be taken previously or simultaneously.

It is the aim of this course to introduce the student to the physical laws of the universe, rather than to emphasize formulae and mathematics. The first semester deals primarily with mechanics, heat, and sound.

***P2-General Physics—A Continuation of Course P1**

Second Semester.

Special emphasis on electricity and light.

Autonomous Courses

Autonomous Courses are open to qualified students to specialize in such physical subjects as light, heat, electricity, and sound phenomena.

DEPARTMENT OF CHEMISTRY***C1-General Chemistry**

Mr. Newton and assistants.

First Semester—Group 5.

Textbook: McPherson and Henderson's General Chemistry.

Three recitations per week and laboratory.

***C2-General Chemistry—A Continuation of Course C1**

Second Semester.

Courses **C1** and **C2** are required of all students except those who have had an exceptionally good high school course and who do not wish to pursue the subject further.

C3-Qualitative Analysis

Mr. Newton and assistants.

First Semester—Group 6.

Prerequisites: **C1** and **C2**.

C4-Quantitative Analysis

Mr. Newton and assistants.

Second Semester—Group 6.

Prerequisite: **C3**.

C5-Organic Chemistry

Mr. Patterson and assistants.

First Semester—Group 2.

Prerequisite: **C4**.

C6—Physical Chemistry

Mr. Newton and assistants.
Second Semester—Group 2.
Prerequisites: C1 and C2.

Autonomous Courses

Qualified students can study further with Mr. Patterson and Mr. Newton in this department in Theoretical Chemistry, Industrial Chemistry, Chemical Engineering, and Chemical Research.

DEPARTMENT OF EDUCATION

General Statement—Graduates of Antioch College who have taken a minimum of thirty semester hours of properly selected courses in education receive without examination a provisional high school certificate from the Department of Education of the State of Ohio. The State Director of Education has designated the following subjects as professional subjects in the training of teachers: General Psychology, Educational Psychology, School Administration, History of Education, Methods of Teaching a Major Subject, Principles of Education, and Supervised Practice Teaching. These subjects fulfill the professional requirements for teaching in many other states.

The certificate is valid in Ohio for four years; after four years the holder of a provisional certificate is granted a life certificate upon the completion of twenty-four months of successful teaching.

Students who wish to qualify as teachers of Home Economics, Physical Education, Manual Training, Library Work, or a special subject of commercial or industrial work, are granted a State Special Provisional Certificate if they take a minimum of eighteen semester hours of approved teacher-training courses.

The prescribed courses are as follows:

- Educational Psychology, 3
- Principles of Teaching, 3
- Methods in the Special Subject, 4
- Organization of Work and Management of Classes, 2
 - or Educational Sociology, 2
 - or History of Modern Education, 2
 - or Adolescent Psychology, 2
- Observation and Practice Teaching, 4

Courses offered by Antioch College include the educational subjects necessary for meeting the requirements of the Ohio School Law. Other educational courses are given, particularly those dealing with school administration. All courses include lectures and conferences by teachers and school administrators who are actively engaged in school work outside the college.

Personnel work, accounting, publicity, and group health are studied as a part of the curriculum in preparing for school administration.

Part Time Teaching—Most of the professional subjects leading to a high school or special certificate are not offered to students until the third year. Those students without a teacher's certificate who desire to do part time work in teaching are given a course for elementary training during their first year. In so far as possible, this course covers the work outlined for the county normal schools of Ohio and includes a number of college courses. It is not arranged for those who want only a year of normal work in preparation for teaching but for students who expect to complete college and do part time teaching while completing their course. Students wishing to finance themselves during their first year will be helped to secure work at the college.

The following special subjects in education and regular college courses comprise the first year's work, and are required to secure an elementary teacher's certificate.

First Semester

Ed1-College Aims

F1-Personal Finances

L1-Literature

PL1-General Psychology

Ed1a-Primary Methods

This course takes up the curriculum and methods of teaching for the lower grades of the elementary school. To be given by the supervisor of the Primary Department of the Antioch School.

H1-Physical Education

Second Semester

B1-Biology

Including Hygiene, Nature Study, and Agricultural Methods.

L2-English

Including supplementary work in English for the upper elementary grades.

Ed2a-Elementary Methods

The curriculum, organization, and methods for the elementary grades with special reference to rural school conditions. Given by Mrs. Everdell.

Ed3a-School Management

A course in classroom control, lesson planning, study methods, and school life related to community activities.

Ed4a-Practice Teaching and Observation

H1-Physical Education

COURSES UNDER THE DEPARTMENT OF EDUCATION***Ed1-College Aims**

(Required of freshmen.)

Mr. Morgan, Mr. Nash, Mr. Hauck, Mr. English, Mr. Prugh, Mr. Bigelow, Mr. Gardner, and others.

First Semester—Group 12.

The object of this course is to acquaint the student with the aims and scope of college education. All departments of the college have a part in conducting the course. The following topics are included: The Purpose of a College Education; History of the American College; History of Antioch College; Organization and Purposes of the Reorganized Antioch; The Course of Study; Autonomous Courses; Cooperative Work; Principles and Methods of Study; Use of the Library; Student Government; Athletics and Physical Education; Health and Personal Hygiene; Religious and Social Affairs; Choice of a Vocation.

Ed2-Principles of Education

Mr. Hauck and Mr. Slutz.

First Semester—Group 10.

This course deals with education as directed human activity; its function as a great social institution; educative agencies in the community; the teacher and the school; the relation of education to politics and social progress; problems of present-day education and suggested solutions.

Ed3-History of Education

Mr. Weston.

Second Semester—Group 3.

A survey of the development of educational institutions from ancient times to the present. Special emphasis is given to movements in American education which will help the student to understand the educational problems of today.

Ed4-Educational Psychology

Mr. English.

Prerequisites: PL1, PL2.

Second Semester—Group 11.

In education, psychology has long found its most fruitful field of application. While virtually every psychological principle has its educational bearing, the chief emphasis is upon the factors most involved in the learning process: attention, imagery, association, practice. The psychological principles of social control as applied to the school-room are sketched, and attention is called to the mental hygiene of the child and the problems of adolescence.

Ed5-Educational Methods

Mr. Hauck, Mr. Slutz and Mr. English.

First Semester—Group 9.

Prerequisite: Ed2.

A study in school management, classroom control, student government, lesson planning, use of tests and supplementary material, projects, teaching how to study, educational measurements.

Ed6-Secondary Education

Mr. Hauck.

Second Semester—Group 9.

A brief survey of the development of secondary education. The organization, methods, and curriculum of the American high school; vocational courses; the junior high school.

Ed7-Primary Education

First Semester—Group 1.

A course for students desiring to specialize in kindergarten and primary teaching or supervision.

Ed8-Elementary Education

Mrs. Everdell.

Second Semester—Group 1.

The organization, methods, and curriculum of the elementary school.

Ed9-School Administration

Mr. Hauck.

Second Semester—Group 7.

The legal status and organization of school systems; supervision and administration; school finance; school hygiene, including buildings, sanitation, furniture, fire protection, recreation, and medical inspection; special schools, relation of schools to the community.

Ed10-Rural Education

A study of rural life with special reference to education; supervision and administration of rural schools; the consolidated school.

Autonomous Courses

Autonomous Courses and a seminar in Education for advanced students, are offered in research and special problems of education in the student's chosen field.

Supervised Teaching is not given as a specific course, but consists of practice teaching in the Antioch School and neighboring school systems during the regular work periods. Observations, reports, and conferences on this work are required.

DEPARTMENT OF PSYCHOLOGY AND PHILOSOPHY

***PL1-General Psychology**

Mr. English and assistants.

First Semester—Group 9.

Textbooks: A First Book in Psychology (Calkins); Elements of Psychology (Woodworth).

This is an introductory course and is conducted by lectures, conferences, and laboratory. It aims to inform the student in regard to the fundamental principles underlying the subject, in what directions the chief problems lie, how a trained psychologist approaches such problems, and how to find dependable information. The applications of psychology are touched on only incidentally, but the chief stress is on those portions of psychological theory which are most fruitful for the interpretation of human conduct in its socially important aspects.

First semester, first five weeks: Introductory; The nature of the problem; Perception and imagination and their sensory basis. Second five weeks: Habit and instinct; thought; emotion.

***PL2-General Psychology—A Continuation of Course PL1**

Mr. English and assistants.

Second Semester—Group 9.

Second semester, first five weeks: Will and ideals; attention; memory; practice; fatigue. Second five weeks: Individual differences, the psychology of personality and character.

***PL3-Elements of Philosophy**

Mr. Weston.

First Semester—Group 1.

Prerequisite: PL2.

This course gives an introduction to the meaning, significance, and value of the study of philosophy, its problems, and the more important theories of their solution, its relation to psychology, logic, and ethics, and to religion and science.

***PL4-Philosophy**

Second Semester—Group 1.

A continuation of Course PL3.

PL5-Social and Applied Psychology

Mr. English and assistants.

First Semester—Group 10.

Prerequisite: PL2 or equivalent.

The topics treated include the behavior of the individual in social groupings; social hygiene as based on psychology with special consideration of the causes of delinquency, mental deficiency, and derangement; mental tests and their applications.

PL6—Psychology—A Continuation of Course PL5

Second Semester—Group 10.

Ed4—Educational Psychology

See Department of Education.

PL7—Experimental Psychology

Mr. English and assistants.

First Semester—Group 12.

Prerequisite: **PL6** or equivalent.

A laboratory practice course.

Autonomous Courses

Autonomous courses are offered in philosophy and psychology to meet the needs of students who want to do advanced work. Especial attention is paid to experimental and laboratory work for graduate students.

DEPARTMENT OF FOREIGN LANGUAGES**FL1—Elementary German**

Mr. Dawson.

First Semester—Group 12.

Textbook: German Grammar (Bacon).

A course in beginning German which is intended to lay the general foundation for any desired course of literary or technical German. The principles of the language are illustrated and clarified, correct pronunciation and the development of feeling for German idiom are sought; a beginning in the practical use of the language is achieved. Besides the text for reading and grammar, easy German will be selected and used as a basis for reproduction, conversation, and composition.

FL2—Elementary German

Second Semester—Group 12.

A continuation of course **FL1**.

FL3—Intermediate German

Mr. Dawson.

First and Second Semesters—Group 2.

Prerequisites: **FL1** and **FL2**, or equivalent.

This course offers opportunity to develop freedom in the use of the language and a desire for and appreciation of German literature. The reading consists of German stories, poems, and dramas. It affords a broader preparation for work in literary and technical German. Texts are selected according to the needs of the class. More advanced courses are offered when there is sufficient demand.

FL4-Technical German

Mr. Patterson.

Second Semester—Group 3.

Prerequisites: **FL1** and **FL2**, or equivalent.

Students are given a variety of technical German to familiarize them with the special vocabulary used in the sciences. The course is recommended for all who expect to enter scientific vocations.

FL5-Elementary French

Miss Guntzer.

First Semester—Group 5.

FL6-Elementary French

Second Semester—Group 5.

A continuation of **FL5**.

FL7-French Literature

Miss Guntzer.

First Semester—Group 2.

Prerequisite: **FL6** or equivalent.

FL8-Technical French

Mr. Patterson.

Second Semester—Group 1.

Prerequisites: **FL5** and **FL6**, or equivalents.

FL9-Elementary Spanish

Mr. Warren.

First Semester.

FL10-Elementary Spanish

Second Semester.

Courses **FL9** and **FL10** are not offered for the year 1921-1922.

FL11-Elementary Latin

Mr. Dawson.

First Semester—Group 2.

FL12-Continuation of FL11

Group 2.

FL13-Elementary Greek

Mr. Dawson.

Group 10.

FL14-Continuation of FL13

Group 10.

Autonomous Courses

Competent students are encouraged to keep up their foreign language studies by reading and through language clubs.

DEPARTMENT OF FINANCE***F1—Personal Finance**

(Required for freshmen.)

Mr. Cavis, Mr. Horner, Miss Julia Turner.

First Semester—Group 2.

A discussion of the elementary principles of economics, finance, budgeting, accounting, and bookkeeping, designed to give students financial knowledge necessary for the ordinary business man or woman.

***F2—Cost Keeping and Bookkeeping**

Mr. Cavis.

First Semester—Group 2.

Prerequisite: F1 or equivalent.

***F3—Accounting and Auditing**

Mr. Horner.

Second Semester—Group 3.

Prerequisite: F2 or equivalent.

F4—Business Finance

Mr. Cavis and Mr. Horner.

First Semester—Group 4.

F5—Financial Organization

Mr. Cavis and Mr. Horner.

Second Semester—Group 4.

Courses F4 and F5 are intended to give a general knowledge of accounting, auditing, business organizations, banking statements, etc., to students who are to qualify as business executives but who are not to specialize as accountants.

Autonomous Courses

Students who are fitted for further work in finance and who wish to specialize in this field, are encouraged to work with the instructors of the department in the study of estimating, financing, banking, commercial law, corporation accounts, etc.

DEPARTMENT OF HYGIENE AND PHYSICAL EDUCATION

It is the function of this department to inform students as to the principles of personal hygiene, to impress upon them the value of physical health, to discover and classify their physical defects or weak points, and to offer a rational program of exercise designed to correct their defects and build up strong men and women.

Every student is accorded a physical examination and strength test in the fall. Thereafter a close watch is kept of the student's general health and physical development. This work is done by Dr. Bigelow, Mr. Prugh, and assistants.

The department confers on special problems with the other college departments where questions of health, personal history, etc., are involved.

*H1-Physical Education

Dr. Bigelow and Mr. Prugh.

Both Semesters—Groups 8 and 16.

Field work and weekly lectures. Students are given wide latitude in choosing games, sports, and gymnasium class exercises that will maintain their bodily health. The lectures cover the field of personal hygiene and group hygiene.

Students preparing to teach physical education are referred to the third paragraph under the Department of Education, page 27.

DEPARTMENT OF INDUSTRIAL MANAGEMENT

This department investigates industries associated with Antioch and new industries desiring to become associated with the College. It advises with such industries in order to insure proper working conditions, experience and advancement for the co-operative students during their working periods.

In so far as possible, it places Antioch students, both men and women, in industrial work that is best suited to their individual needs and wishes. It maintains an advisory supervision over the work and the progress of the students, and in cooperation with their employers, guides them in their personal industrial problems.

This department also presents to the students a course in Industrial Relations which is designed to supply a practical working knowledge of the principles underlying the personnel problems in administrative management; of scientific industrial research and of the accepted practice in meeting such problems. The course, furthermore, is designed to give the students an

intelligent understanding of both the employer's and the employee's viewpoints and to train them in the solution of personnel questions with which the employer is constantly confronted.

Realizing that the general problem of industrial relations is never static and that varying conditions must determine the details of the method of approach to each individual problem, this course will draw a large proportion of its subject matter from actual industrial experience rather than from any prescribed textbook. Reference will be made, however, to pertinent material in certain accepted works such as the following:

Administration of Industrial Enterprises—E. D. Jones.
Personnel Administration—Tead & Metcalf.
Scientific Management and Labor—F. R. Hoxie.
Industrial Goodwill—J. R. Commons.
Instincts in Industry—Ordway Tead.
Democracy and Education—John Dewey.

I1—Industrial Problems

Mr. Gardner, Mr. Hourwich, Mr. Van Loon, Dr. Bigelow.
Second Semester—Group 6.

This course gives the student an introduction to the industrial problems of the day. The history of the industrial system, wage systems, trade unionism, and the industrial problems which await solution, are outlined by Professor Van Loon. Mr. Hourwich emphasizes the value of the research point of view and of the research laboratory to the average industry, whether it be large or small. Doctor Bigelow briefly outlines the health problem in industry. Mr. Gardner gives an introduction to the problem of personnel administration, its growth in importance and its economic value in industrial management.

The aim of the course is to indicate to the student the growth of the industrial problems and the part which research plays in the development of modern industry.

***I2—Industrial Research**

Mr. Hourwich.
Second Semester—Group 7.

A study of the technical methods of industrial research such as experiments, statistics, graphical control, reports, laboratory organization, etc.

***I3—Modern Industrial Relations Problems**

Mr. Gardner and Miss Huey.
First Semester—Group 5.
Prerequisite: I1 or equivalent.

An analysis of modern industrial relations problems and

a study of best practice in meeting them, involving such phase of industrial relations work as:

(a) Employment methods. Theory and practice in the operation of a functionalized employment department—the service nature of its relation to other departments.

(b) Working conditions. Study of problems of safety, sanitation, plant layout and equipment, transportation, etc. The effect of such conditions upon employes and upon production.

(c) Wages and incentives. Study of various types of wage systems, savings and insurance plans, pension systems, etc.

(d) Industrial education and training. Methods of training the manual worker. Americanization, extension classes, foremen's meetings, etc. The value of industrial education to employer and employee.

(e) Research and legislation. Technical analysis as applied to personnel questions. Tests. Labor legislation, workmen's compensation, etc.

(f) Joint relations. Survey of service activities along lines of social interests, recreation, housing, etc. Company publications. Shop committees and employee representation.

Accepted practice as illustrated by the policies and methods of leading industrial concerns is analyzed from the standpoint of its fundamental soundness and its success in actually solving the problems which it is designed to meet.

***I4—A Continuation of Course I3**

Second Semester—Group 5.

I5—Industrial Personnel Problems

Mr. Gardner.

First Semester—One period of two hours each week, scheduled at convenience of instructor and students.

Prerequisite: I4 or equivalent.

A graded series of practical industrial problems is analyzed by the individual student and by selected groups of students. These problems range from the simpler examples introduced by students from their experiences in co-operative employment to the more complicated ones confronting large industrial organizations and bearing upon our welfare as a producing nation. The open discussion is utilized to a great extent on those problems which present controversial factors and offer an opportunity for informal debate. Coming, as it does, after a rather detailed course

in common practice in industrial relations, this course offers an excellent chance for constructive and original attack on problems which actually exist in various lines of business activity.

Autonomous Courses

Students who are qualified to do so are encouraged to make detailed studies, examinations, and reports of actual research problems existing in nearby industries, and such investigations will count towards the College degree.

DEPARTMENT OF ADVERTISING AND SALESMANSHIP

A1-Principles of Advertising

First Semester—Group 10.

Lectures, reading, and field work.

A course designed to develop an appreciation of what constitutes good advertising, including such topics as: The function of advertising; The mechanics of advertising; Advertising illustration, layout, copy, type, color, etc.; Advertising medium; Effective advertising; An analysis of current advertising; An analysis of actual advertising problems.

A2-Principles of Salesmanship

Second Semester—Group 10.

Preparation, approach, demonstration, closing, application to actual products, comparison of retail and wholesale salesmanship, the problem of the sales manager.

A3-Practical Advertising

First Semester—Group 11.

Requirements: **A2** or equivalent.

A study of advertising campaigns as to research, analysis, running a newspaper campaign, follow-up, checking results. A study of the advertising agency, its functions, organization, methods, and results.

A4-Practical Salesmanship

Second Semester—Group 11.

Requirements: **A3** or equivalent.

The sales force in a large organization, sales promotion, graphical control, bulletins, conventions. The revision of large-scale methods to the small industry. Students in this course are given an opportunity to study the methods and results of some of the excellent industrial sales schools of the Miami Valley.

Autonomous Courses

Properly qualified students are given an opportunity to analyze actual advertising and sales problems in cooperation with existing advertising agencies, and with the Antioch Industrial Service. Such work will count toward the college degree.

DEPARTMENT OF HOUSEHOLD ECONOMICS

(All courses are autonomous.)

The six-year course in Household Economics covers approximately the work required in other institutions, so that a student may transfer to or from Antioch without loss of time. Here, however, a part of the instruction given elsewhere in classroom and laboratory comes by way of paid work in kitchen, dormitory, shop, and office. Under present industrial conditions, girls cannot expect to earn much more than living expenses in the cooperative work, but they will acquire information through experience which transmutes it into knowledge. All paid occupations in the refectory and dormitories are supervised by Miss Turner as employer, and are planned to serve an educational end as well as to earn money for the student. Living conditions at the College secure for the student of household management unusual opportunities for study and for the development of taste, skill, and judgment.

Students preparing to teach this special subject are referred to the third paragraph under the Department of Education, page 27.

HE1—Food—Elementary Course

Miss Turner, Dr. Bigelow, and assistants.

First semester, two hours a week.

Prerequisites: C1, B1.

*Required for women.

HE2—Food—Continuation of HE1

Second Semester.

HE3—Food Chemistry

Mr. Patterson and assistants.

Second semester, two hours recitation, laboratory.

Prerequisite: HE1.

HE4—Housing—Elementary Course in House Planning, Building, Furnishing, and Care

Mr. Grandgent, Miss Turner.

First semester, two hours.

Prerequisite: P1 to be taken previously or simultaneously.

HE5-Household Management

Miss Turner and assistants.

Second semester, two hours.

Prerequisites: **HE4**; **I1** previously or simultaneously.

HE6-Textiles and Clothing

Miss Turner.

Second semester, two hours.

Prerequisite: **C1**.

DEPARTMENT OF CIVIL ENGINEERING

(All courses are autonomous.)

Properly qualified students with the necessary fundamental training in mathematics and science are offered an opportunity to study civil engineering under the special direction of Mr. Morgan and his engineering associates, and Mr. Nash.

LIBRARY INSTRUCTION

Experience in library methods is gained by actual practice in the daily work of the Library. Cooperation with neighboring libraries furnishes opportunity for gaining a variety of practical experience. Instruction is given in the use of reference books in connection with the card catalogue; in the use of books as tools; also in filing and indexing. For intending teachers, instruction is given in the organization and care of school libraries.

Students interested in librarianship as a profession find opportunity, through the departments of language, literature, and history, to prepare for entrance to any of the standard library schools. At least two years of college work are required for such preparation. Completion of the full college course is desirable and waives entrance examination to most of the library schools.

SCHEDULE BY COURSES

For purposes of scheduling, each course is assigned to a group and laboratory divisions. All courses in any individual group meet at the same time. Autonomous and vocational courses are not scheduled, but are arranged to suit the convenience of the students and the instructor. No lectures or laboratory work are given Saturday afternoons.

Monday, Wednesday, Friday			Tuesday, Thursday, Saturday		
Group	Courses	Time	Group	Courses	
1—	M1-2 L6 Ed7 Ed8 FL8 PL3 PL4	8:00-9:00 a.m.	9—	S5 S6 Ed5 Ed6 PL1 PL2 PL8	
2—	L5 Ed3 M3 M4 C5 C6 FL3 FL7 FL11	9:00-10:00	10—	S1 S2 Ed2 PL5 PL6 A1 A2	
	FL12 F1 F2	Assembly		FL13 FL14	
3—	FL4 L5 Ed3 F3	10:30-11:30	11—	S3 S4 Ed4 A3 A4	
4—	F4 F5 L1 L2 L3 L4 M5 M6	11:30-12:30	12—	Ed1 Ed7 PL7 FL1 FL2	
5—	E1 E2 B5 C1 C2 P1 P2 I3 I4 FL5 FL6	1:00-2:00 p.m.	13—	B1 B2 B3	
6—	C3 C4 Ed8 Ed9 I1 I3	2:00-3:00	14		
7—	I2 Ed9	3:00-4:00	15		
8—	H1	4:00-5:00	16—	H1	

SPECIAL VOCATIONAL COURSES

Antioch vocations are to include, besides the departments already organized,

Machine Shop Operation.

Printing, Publishing, and Journalism.

Contracting.

Farming.

When this catalogue goes to press, the personnel organization of these departments has not been worked out. It is planned that the persons who will handle the teaching in these industries will also act as proprietors and managers of similar industries in partnership with the College. The present industrial situation is such as to retard the starting of such industries, and making the connections with competent persons to manage them and to instruct students in their principles, until the College is sure of their financial success.

If industrial conditions justify, it is expected that instruction in all of the above vocations and in some others will be started during this school year.

SCIENCE-AGRICULTURE COMBINATION COURSE: ANTIOCH COLLEGE AND OHIO STATE UNIVERSITY

Antioch College has arranged with Ohio State University for a combination course in science and agriculture. By this arrangement the first four years of the work in the Department of Agriculture may be carried on at Antioch College, for which the University will give full credit in its requirements for the degree of Bachelor of Science in Agriculture. The conditions and requirements are outlined below.

Time Required—Total time required, six years, four of which are to be spent at Antioch College and two years at Ohio State University. At the end of five years, the degree of Bachelor of Science will be conferred by Antioch College, and at the end of six years the degree of Bachelor of Science in Agriculture by Ohio State University.

General Requirements in Antioch College—

1. No student is eligible for a degree in the Science-Agriculture Combination Course who has not completed three years' resident work at Antioch College and one year's resident work at Ohio State University.

2. The faculty of Antioch College reserves the right to refuse to recommend for the combined course any candidate who has not maintained a standard of good scholarship.

REGISTRATION

A registration charge of \$10.00 is made, payable at the time the prospective student is accepted for entrance. In the event a prospective student is registered for entrance some years in advance, a charge of \$10.00 per year is made for registration.

ENROLLMENT

Before the fall term opens, each student is assigned to one of the three divisions, Division A, Division B, or Division C—the first two being composed of cooperative students, and the last comprising the full-time students. The cooperative students (Divisions A and B) are requested to report at Antioch as long before the College opens as will be convenient for them, making arrangements in advance by correspondence, so that they may the sooner settle into college life and be assigned to their several industries. This avoids the haste and possible misjudgments of last-minute pressure, and works for the mutual advantage of both College and student. The full-time students (Division C) need not report until the College opens, September 3, 1921.

EXAMINATIONS

Twice each year determination is made, either by examination or conference, of the student's actual accomplishment during the semester, and credit towards his degree is given accordingly.

FACULTY ADVISERS

Each student, upon entering the College, is assigned to the personal attention of a faculty adviser. It is this adviser's duty to assist the student in his choice of elective studies, in selecting the type of industrial work he is best fitted to do, and generally in adjusting himself to the conditions of college life. The student is expected to keep in close touch with the adviser throughout the year, and to discuss with him all college and personal plans, perplexities, and difficulties, as he would with an intimate friend. It is needless to emphasize that the most harmonious and confidential relations should exist between the student and his faculty adviser.

LOCATION

Antioch College is situated at Yellow Springs, in Greene County, Ohio, a beautiful village between Xenia and Springfield, about nine miles from each and within twenty miles of Dayton. It is seventy-five miles northeast of Cincinnati and fifty miles west of Columbus in the heart of the rich and fertile Miami

Valley. Yellow Springs may be reached from the New York Central Lines (Big Four Division) by connections at Springfield, and directly by the Pennsylvania Lines on a branch running from Xenia, which is on the main line of east and west traffic. The Springfield and Xenia Electric Railway runs through Yellow Springs, giving hourly service to Xenia and Springfield.

BUILDINGS AND GROUNDS

The College buildings are four in number: the main building, two dormitories, and the Horace Mann House, which is now used for the Antioch School. These buildings cover an area of approximately two acres of floor space, and can reasonably accommodate the requirements of five hundred cooperative students.

Antioch Hall is in the form of a cross, 170 feet long and 110 feet wide. It houses the chapel, lecture rooms, library, laboratories, recitation rooms, and the literary society halls. Here also is the gymnasium, measuring 73 feet by 46 feet, with a visitor's gallery running around the second floor. In the auditorium is a large stage, with dressing rooms adjoining. The executive offices of the College are in Antioch Hall.

The men's dormitory is of four stories and contains 91 rooms. The women's dormitory is of the same size, but containing 72 rooms. In the lower floor of the women's dormitory are the kitchens and the large College dining hall, appointed to seat 250 students, and special dining rooms with an aggregate capacity of 50. The kitchen is equipped for teaching the most approved methods of modern cooking.

The Horace Mann House, a large brick building three stories high and containing fifteen rooms, adjoins the campus on the north.

The College campus is excelled by few in the country, and its immediate environs are widely noted for their exceptional beauty and interest.

Adjoining the twenty-acre campus is a beautiful tract of woodland, containing some fifty varieties of trees, many of which are more than a century old. Here there are two glens with limestone cliffs, a little lake formed by a dam, two small waterfalls, and many quiet woodland paths. A large spring and also a prehistoric mound are in this wood.

In the early years of Antioch, Horace Mann began the custom of an annual walk through the glens to Clifton. The scenery of the trip is of increasing beauty till the climax is reached in Clifton Gorge. This custom, known as the May Walk, is still observed.

LIBRARY AND READING ROOM

The College Library contains at present about fifteen thousand volumes, including standard reference works. It is expected that this number will be substantially increased as the result of a campaign which is now being planned. The books in the Library are catalogued according to the system approved by the American Library Association.

In the reading rooms are current American and English journals, files of which are kept for reference.

About three thousand books have been added to the Library in recent years by the bequest of friends. The most important of these gifts are from the private library of Mr. Isaac Harris, of Massachusetts, including approximately one thousand volumes; the library of Mr. and Mrs. George Hill, of Denver, including three hundred volumes; and the library of Miss Rebecca Rice, in whose honor an alcove has been named, containing seventeen hundred volumes.

LABORATORIES AND MUSEUM

The biological, physical, and chemical laboratories and the Museum are located in Antioch Hall.

The biological laboratories contain compound microscopes, dissecting microscopes, a microtome, paraffin bath, and incubator, and other articles necessary for microscopical work.

The physical laboratory is arranged for carrying on practical investigation in the various branches of physics. Besides the usual apparatus intended for lecture demonstration and student's use, several special pieces have recently been added.

The chemical laboratory is equipped with the usual apparatus for the study of qualitative and quantitative analysis.

The Museum contains skeletons, a large number of zoological specimens, an herbarium, and collections of geological specimens.

New apparatus and appliances are added from time to time.

DESCRIPTION AND ASSIGNMENT OF ROOMS

There are three standard arrangements of rooms in both dormitories:

1. Room for one person, \$2.50 per week.
2. Room for two persons, \$1.50 per week each.
3. Suites of two bedrooms and connecting study, for four persons, \$2.00 per week each.

Combined bed and study rooms are furnished with steam heat, electric lights, hot and cold running water, single bed for each occupant, chairs, study table, chiffonier, blankets, sheets and pillow cases. The furnishings supplied by the college are sufficient

for ordinary needs, but students will need extra blankets for cold weather, and they may care to add couch cover, rugs, and curtains.

Provision is made on each floor for a study alcove, which is available for students who do not wish to study in their rooms. Electrical appliances are not allowed in the rooms, but an alcove in each dormitory is equipped for this purpose.

Students may reengage their rooms from year to year. New rooms are assigned by lot on September 1st. Application in order of preference should be made to the bursar, not later than August 15th.

The following table will be found useful in locating rooms:

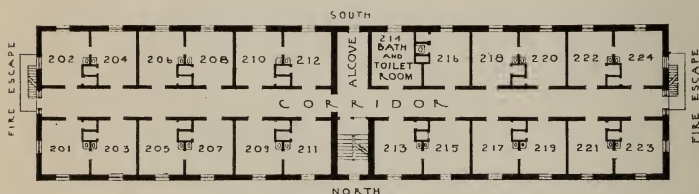
Rooms 100 to 200 are on the first floor.

Rooms 200 to 300 are on the second floor.

Rooms 300 to 400 are on the third floor.

Rooms 400 to 500 are on the fourth floor.

The standard plan is as follows, although there are some variations:



Typical Second Floor Plan, Both Dormitories.

Rooms 101 to 212, inclusive, in the girls' dormitory, are not available to students. The first floor is occupied by the College kitchen, the large dining room, and special dining rooms. The offices and rooms of the Dean of Women and the dormitory parlors occupy part of the second floor.

Room rent is ordinarily charged ten weeks in advance, but students can obtain credit for any five-week period by signing off at the Bursar's office three days in advance. No credit is allowed for less than a five-week period.

EXPENSES

The annual tuition for students during the year 1921-1922 on the cooperative plan is \$200. For students on the full-time plan the charge is \$300. In the case of cooperative students, tuition is payable *\$100 upon entrance, \$50 at the beginning of the second semester, and \$50 ten weeks later. For full-time students, the initial payment is \$150 and the two final payments are \$75

*In view of statements made in previous bulletins, the first payment on tuition for students accepted prior to August 1, 1921, may be \$50, if the student so desires.

each. Laboratory fees and board and room bills are payable in advance in four installments at the beginning of each five-week school period throughout the year.

Prizes, scholarships, fellowships, and loans are usually credited in two installments on the first-term bills coming due after their award.

The first-term bill must be paid before the student is admitted to classes. The amount of this bill is ordinarily \$165, tuition being \$100, board \$45, and room \$20. A student not wishing to board or live at the College pays \$100.

Student Budget—The following is a suggested budget for the cooperative student for the freshman school year of ten months:

Tuition	\$200
Board, \$4.50 per week for 42 weeks.....	189
Room, \$2.50 per week for 42 weeks.....	105
(This includes heat, light, furniture, and bed linen and is less in case two students occupy one room.)	
Books, laboratory fees, breakage, and school ex- penses	100
Clothes	100
Health insurance	30
Incidentals	85
	<hr/>
	\$809

Laboratory fees are as follows, per semester: Chemistry, \$5.00; Biology, \$4.00; Physics, \$3.00.

WARDROBE

Antioch favors simplicity and economy in matters of clothing. However, no definite regulations are made. Besides school suits, students should bring work clothes.

STUDENT INCOME

The income derived by students from their cooperative work is very variable and depends on their capability and adaptability, and upon industrial conditions. The minimum should be about \$400 for the first year. No definite maximum can be set. A young man or woman who does supervised work for half time for six years, at the same time gaining a technical knowledge of the industry at College and also gaining a broad cultural foundation, has a valuable preparation for economic independence. As these students gain in maturity and responsibility through their college courses, they will take more and more economic responsibility. Some may become small proprietors on their own account while still in college. Some may be fitted for respon-

sible positions in retail selling, manufacturing, etc. It is thought that the average earnings may be about as follows, but they depend so much upon the industrial conditions of the country and upon the individual capability of the student, that they are not given with assurance:

Year at Antioch	Total yearly income including work for full summer vacation
Freshman	\$460
Sophomore	600
Sub-Junior	700
Junior	800
Sub-Senior	850
Senior	900

The very disturbed industrial conditions of the present year are of course affecting the opportunities for all students. Some large industries that had agreed to use students are entirely closed down. Since the last Antioch Bulletin was printed the prevailing wage for common labor has dropped from about fifty cents per hour to about thirty cents. It will be necessary for students to work for smaller incomes than was anticipated, and there will be less opportunity to select positions. On the other hand, the cost of living is being reduced. It is not advisable for students to postpone entrance on account of changed industrial conditions, but rather to make the best of the situation in co-operation with the College authorities.

STUDENT ACTIVITIES

Religious Life—The moral and religious life of a college is of the greatest importance. At Antioch College the religious activities are under the direction of the Antioch Religious Union, an organization composed of students and members of the faculty. This organization appoints committees to arrange programs and originates plans for the conduct of this part of the College life. The churches of Yellow Springs, Springfield, and Xenia cooperate with the College in the religious training of the students. Vesper services are held on Sunday at the College, and ministers of different denominations participate.

Literary Societies—For purposes of literary and musical culture, and of freedom in public speech, the students maintain two literary societies, the Star and the Union. These organizations meet on Friday evenings.

Athletics—The athletic activities of the College are conducted under the direction of the Antioch Athletic Association, to the membership of which all students are eligible. The gymnasium, called Kelly Hall, in the main building provides a large and

excellent floor for indoor sports. On the campus are a baseball and football field and tennis courts.

The interests of the Athletic Association include baseball, football, basket ball, track, and tennis. All meets are regulated by the Association, and in the spring of each year it awards letters to those who have played the necessary number of games on the various College teams.

Student Self-Government—The participation of students in the government of the College furnishes a valuable experience in social relations. The students at Antioch are working out plans for student government and these plans at the proper time will be adopted for the regulation of the life of the College.

The young women of the College are under the direct oversight of the Dean of Women in personal matters concerning which they need direction and advice.

RHODES SCHOLARSHIPS

Men who have completed their third year at Antioch College, or second year on the full time plan, are eligible to compete for the Cecil Rhodes Scholarship tenable for three years at Oxford University, England, with a stipend of \$1,500 each year, and for the present, a further bonus of \$250. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extra-curriculum activities. Further information may be obtained from the chairman of the Rhodes Scholarship Committee of Selection for Ohio, Professor Leigh Alexander, Oberlin College, Oberlin, Ohio, or from Professor H. B. English, of Antioch College, a former Rhodes scholar.

ANTIOCH INDUSTRIAL SERVICE

Antioch offers to industries within reasonable distance of Yellow Springs, the consulting service of a resident organization of specialists in the following fields of research and practice:

- Industrial Relations.
- Library and Office Organization
- Auditing and Accounting.
- Industrial Health.
- Architecture.
- Civil Engineering.
- Educational Administration.
- Institutional Management.

The directors of these branches of Antioch Industrial Service are men and women with years of practical experience, who have been selected because of proved ability in their respective fields.

Such service offers many advantages. The resident consultant gradually becomes acquainted with his clients to a degree

impossible for the casual consultant. He can correct the little things that are unimportant in themselves, but which in the aggregate prevent the smooth operation of an organization. He can work through existing channels both as to conditions and personnel without a serious break in the established order, and at the same time can thoroughly prepare the way for the more important work which may later prove desirable. Many good ideas in industrial organization go wrong because they are administered in too large doses and without adequate preparation.

In such an organization, the industry gains the great advantage of expert knowledge on allied problems which the individual consultants can readily obtain through close cooperation with each other on the Antioch staff.

Furthermore, Antioch Industrial Service is in a position to carry through to satisfactory completion work which is initiated, rather than to leave to the industry the difficult task of putting good theory into actual practice.

This consulting service is available on short notice either in whole or in part, according to the needs and desires of clients. The knowledge of local conditions and acquaintance with personnel, which a resident organization establishes, has a cumulative value not to be overlooked. Furthermore, the cost of such service is materially lessened by absence of heavy traveling and maintenance charges.

The close contact between Antioch College and the industries of the Miami Valley, which Antioch Industrial Service offers, has valuable mutual advantages. About two hundred cooperative college students are employed by these industries during the year. Through follow-up of students at work and association with them in the classroom, Antioch consultants gain the advantage of an acquaintance with the general policies and industrial practice of cooperating industries, which cannot fail to be of value in their consulting work. On the other hand, the high standard of the instruction in industrial organization and administration given by these consultants as members of the Antioch College faculty, is maintained by continued close contact with current industrial problems and general business conditions.

Antioch Industrial Service should not be confused with that feature of the Antioch Plan which provides for cooperative part time employment of College students in industry. The organization aims to offer the highest possible type of consulting service on industrial problems; the responsibility of maintaining this standard rests upon the directors and assistant directors of its various branches. It is true, however, that in the execution of the plans of this service, there is a certain amount of work on which students may be employed if properly qualified by ability and experience.

An indication of the type of problems covered by the various divisions of the Antioch Industrial Service is given below.

Industrial Relations Division

1. Employment—Source of supply; selection, placement, records; transfer, promotion, releases, etc.
2. Education—Initial training of the new employe; company policy, generation information; foremen; executives; etc.
3. Service—Cafeteria, rest rooms; recreation, athletics, social clubs; pensions, savings, benefit associations; plant publications; etc.
4. Research—Job analysis, job specifications; labor audit; labor turnover analysis; absenteeism; wage payment methods; wage classification, records; etc.
5. Joint Relations—Suggestions; standards, hours of work, fatigue studies; shop committees, employe representation; etc.
6. Health and Safety—Cooperates with the Industrial Health Branch on questions relating to: physical examination, follow-up; working conditions; health and safety education; employees' committees; etc.

Industrial Health Division

1. Health—Physical examinations (pre-employment, periodic, etc.); medical department (medical, surgical, and accident cases); special clinics, dental, orthopedist, eye specialist, etc.; visiting nurse, investigation of absentees; health education, health hazards; records, studies, prevention; etc.
2. Safety—Cooperation with plant engineers on; research, accidents, hazards; safety education, inspection, safeguards; etc.
3. Sanitation—Ventilation, lighting, heating; inspections, general sanitary conditions; drinking water, toilets, lockers; etc.
4. General—Advice on medical phases of Workmen's Compensation Law, insurance, benefit associations, etc.

Accounting Division—Opening books of account and designing accounting system; preparation of financial statements from existing records; auditing of books; installation of cost-finding systems; consulting service in cost-finding, general accounting, and auditing; keeping books of account for small industries where the volume of business does not justify the employment of specialists in accounting and bookkeeping; preparation of income tax returns.

Architecture Division—The department offers a consulting service and also more complete services for design and supervision of construction. The architectural department covers the field both of commercial and industrial buildings and of residences.

Civil Engineering Division—This division offers consulting service in hydraulic engineering, especially in problems of irrigation, flood control, steam and electric railroad location, tunnels and subways, and in construction of concrete and steel structures.

Educational Administration Division—This division offers consulting services in educational administration and management.

Institutional Management Division—Advice is available as to the equipment and management of home and institution kitchens, tea rooms, cafeterias, and restaurants. Courses of study in home economics are planned for women's clubs and lectures given. School and factory lunches are prepared at the College or on the premises.

Library Division—Services are available under this division in the organization, needs, and operation of libraries. It is also the special function of the division to advise in planning office equipment and routine.

THE ANTIOCH SCHOOL

The scope of the Antioch Academy, the preparatory school of the College, has recently been broadened to include an elementary and a secondary school. Under the new plan, the Antioch School includes three principal divisions: an elementary school (with kindergarten), a junior high school, and a senior high school.

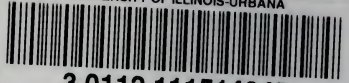
The elementary school (kindergarten and the first six grades) is limited for the present year to pupils who are resident in Yellow Springs and vicinity. In the junior and senior high schools, a limited number of boarding pupils are accepted.

Students who enter the College with irregular preparation can make up deficiencies in the upper classes of the Antioch School.

The special bulletin of the Antioch School, containing full information concerning courses of study, equipment, rates, etc., may be obtained by addressing the Director of the Antioch School, Yellow Springs, Ohio.

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